

ABSTRACT OF THE DISCLOSURE

It is an object to provide a p-type ZnS based semiconductor material having a low resistance which can easily form an ohmic contact to a metallic material. Moreover, the invention provides a semiconductor device and a semiconductor light emitting device which include an electrode having a low resistance on a substrate other than a single crystal substrate, for example, a glass substrate.

The semiconductor material according to the invention is used as a hole injecting electrode layer of a light emitting device and has a transparent property in a visible region which is expressed in a composition formula of  $Zn_{(1-\alpha-\beta-\gamma)}Cu_\alpha Mg_\beta Cd_\gamma S_{(1-x-y)}Se_xTe_y$  ( $0.004 \leq \alpha \leq 0.4$ ,  $\beta \leq 0.2$ ,  $\gamma \leq 0.2$ ,  $0 \leq x \leq 1$ ,  $0 \leq y \leq 0.2$ , and  $x + y \leq 1$ ).